WHAT IS CLAIMED IS:

 An electronic apparatus capable of effectively using power of an AC/DC adaptor comprising:

a host; and

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an AC/DC adaptor, for receiving an AC power, converting the AC power into a DC power for the host, and outputting a controlling signal to control power consumption of the host according to the power output at that time, the AC/DC adaptor comprising:

a switching power converter, for converting the AC power into the DC power; and

a power supply controller, for outputting the controlling signal according to the power output by the switching power converter.

2. The apparatus according to claim 1, wherein the host comprises:

a central processor unit (CPU), wherein the operating frequency of the CPU is adjusted according to an adjusting signal; and

a CPU controller, for outputting the adjusting signal according to the

controlling signal, wherein the operating frequency of the CPU is lowered by the adjusting signal as the controlling signal shows the power consumption is too high.

3. The apparatus according to claim 2, wherein the CPU controller comprises;

an oscillation circuit, for outputting a triangular wave; and

- a comparer, for outputting the adjusting signal according to the controlling signal and the triangular wave.
- 4. The apparatus according to claim 2, wherein the host further comprises:
 - a CPU power converter, for converting the DC power output by the AC/DC adaptor into the voltage required by the CPU.
 - 5. The apparatus according to claim 1, wherein the host comprises:
 - a battery, for receiving a charging current;
- a charging controller, for receiving the controlling signal and outputting a charging signal accordingly; and

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- a charging circuit, for receiving the DC power and determining the charging current according to the charging signal.
- 6. The apparatus according to claim 5, wherein the charging controller is a voltage dividing circuit.
- 7. The apparatus according to claim 1, wherein the power supply controller comprises:

an operational amplifier, for receiving a present reference voltage and a present threshold voltage, the operational amplifier outputting the controlling signal after comparing the present reference voltage and the threshold voltage;

wherein the threshold voltage is preset according to the maximum power output by the AC/DC adaptor, and the present reference voltage is given according to the loading current of the AC/DC adaptor.

- 8. The apparatus according to claim 7, wherein the threshold voltage is given according to the output voltage of the AC/DC adaptor.
- 9. An electronic apparatus capable of effectively using power of an AC/DC adaptor comprising:

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an AC/DC adaptor, for receiving an AC power, converting the AC power into a DC power, and outputting a controlling signal according to the power output at that time, the AC/DC adaptor comprising:

a switching power converter, for converting the AC power into the DC power; and

a power supply controller, for outputting the controlling signal according to the power output by the switching power converter; and

a host, operated by the DC power, wherein the power consumed by the host is adjusted according to the controlling signal, the host comprising:

a CPU, the operating frequency of the CPU is adjusted according to an adjusting signal;

a CPU controller, for outputting the adjusting signal according to the controlling signal, wherein the operating frequency of the CPU is lowered by the adjusting signal as the controlling signal shows the power consumption is too high;

a battery, for receiving a charging current;

a charging controller, for receiving the controlling signal and outputting a charging signal accordingly; and

a charging circuit, for receiving the DC power and determining the charging current according to the charging signal.

5 10. The apparatus according to claim 9, wherein the CPU controller comprises;

an oscillation circuit, for outputting a triangular wave; and

- a comparer, for outputting the adjusting signal according to the controlling signal and the triangular wave.
- 10 11. The apparatus according to claim 9, wherein the host further comprises:
 - a CPU power converter, for converting the DC power output by the AC/DC adaptor into the voltage required by the CPU.
 - 12. The apparatus according to claim 9, wherein the charging controller is a voltage dividing circuit.
 - 13. The apparatus according to claim 9, wherein the power supply

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controller comprises:

an operational amplifier, for receiving a present reference voltage and a present threshold voltage, the operational amplifier outputting the controlling signal after comparing the present reference voltage and the threshold voltage;

wherein the threshold voltage is preset according to the maximum power output by the AC/DC adaptor, and the present reference voltage is given according to the loading current of the AC/DC adaptor.

14. The apparatus according to claim 13, wherein the threshold voltage is given according to the output voltage of the AC/DC adaptor.

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